

Notice of Allowability

Application No.

10/628,552

Examiner

Rakesh Kumar

Applicant(s)

NUNOKAWA, HIROKAZU

Art Unit

3654

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 03/14/2007.
2. ☒ The allowed claim(s) is/are 1-15.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

EXAMINER'S AMENDMENT

The following is an examiner's statement of reasons for allowance:

The claim 1 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: a step of calculating an aggregate carry amount of said recording medium; and a step of recording, with a print head, on said recording medium that has been carried; wherein the larger said carry command value is, the more said carry roller rotates; and wherein said carry command value is changed based on a result of said step of calculating said aggregate carry amount of said recording medium.

The claim 2 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: a step of calculating an aggregate carry amount of said recording medium; and a step of recording, with a print head, on said recording medium that has been carried; wherein said carry command value is changed based on a result of said step of calculating said aggregate carry amount of said recording medium.

The claim 4 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: a step of calculating an aggregate carry amount of said recording medium;

Art Unit: 3654

and a step of recording, with a print head, on said recording medium that has been carried; wherein said carry command value is changed when a front end region of said recording medium is carried and when a rear end region of said recording medium is carried; and wherein when said front end region is carried, said carry command value is changed to a larger carry command value than when said rear end region is carried; and wherein said carry command value is changed based on a result of said step of calculating said aggregate carry amount of said recording medium.

The claim 10 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: wherein said carry command value is changed according to an attribute of said recording medium; and wherein said carry command value is set according to a predetermined reference carry command value, and a correction value for said reference carry command value, said correction value being associated in a data table with an aggregate carry amount of said recording medium and an attribute of said recording medium.

The claim 12 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: a step of changing a carry command value when carrying a front end region of a recording medium and when carrying a rear end region of said recording medium, based on a predetermined reference carry command value, and a data table

Art Unit: 3654

indicating correction values for said predetermined reference carry command value, said correction values being set in association with a thickness, a length, a width, and a material of said recording medium and being set for every predetermined carry amount of said recording medium; a step of making a carrying mechanism for carrying said recording medium carry said recording medium based on said carry command value that has been changed; and a step of recording on said recording medium that has been carried.

The claim 13 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: driving at least one carry roller, which advances or withdraws said recording medium, based on a carry command value; and changing said carry command value, when said recording medium is carried, according to a state of bending of said recording medium that is carried; and calculating an aggregate carry amount of said recording medium; wherein the larger said carry command value is, the more he carry roller rotates; and wherein said carry command value is changed based on a result of said calculating said aggregate carry amount of said recording medium.

The claim 14 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: a control circuit which calculates an aggregate carry amount of said recording medium; wherein said carry command value is changed according to a state

Art Unit: 3654

of bending of said recording medium that is carried; wherein the larger said carry command value is, the more the carrying mechanism advances or withdraws said recording medium; and wherein said carry command value is changed based on a result of said step of calculating said aggregate carry amount of said recording medium.

The claim 15 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: a step of calculating an aggregate carry amount of said recording medium; and a step of recording on said recording medium that has been advanced or withdrawn; wherein the larger said carry command value is, the more the carrying mechanism advances or withdraws said recording medium; and wherein said carry command value is changed based on a result of said step of calculating said aggregate carry amount of said recording medium.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Art Unit: 3654

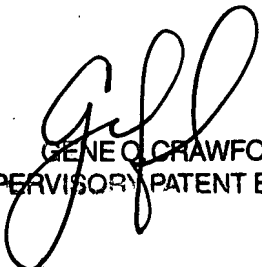
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rakesh Kumar whose telephone number is (517) 272-8314. The examiner can normally be reached on 8:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Crawford can be reached on (571) 272-6911. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RK

June 11, 2007


GENE Q. CRAWFORD
SUPERVISORY PATENT EXAMINER